

Title (en)
MEDICAL IMPLANT FOR GAS EXCHANGE

Title (de)
MEDIZINISCHES IMPLANTAT ZUM GASAUUSTAUSCH

Title (fr)
IMPLANT MÉDICAL DESTINÉ À L'ÉCHANGE DE GAZ

Publication
EP 3750510 B1 20240110 (DE)

Application
EP 20176847 A 20200527

Priority
DE 102019115933 A 20190612

Abstract (en)
[origin: CA3081241A1] The invention relates to a medical implant for treating bone defects having at least one hollow body (1), which delimits an inner chamber in the interior of the hollow body (1), a fluid feed line (2), which is connected in fluid-permeable manner with the inner chamber of the hollow body (1), and a fluid discharge line (3), which is connected in fluid-permeable manner with the inner chamber of the hollow body (1), wherein the hollow body (1) consists at least in places or wholly of at least one plastics material, wherein the at least one plastics material is impermeable to liquids and is permeable to oxygen and to carbon dioxide, such that oxygen is deliverable from a fluid passed through the hollow body (1) to the surroundings of the hollow body (1) and carbon dioxide is absorbable from the surroundings of the hollow body (1) into the fluid. The invention also relates to a bone defect treatment system having such a medical implant and the fluid, wherein the fluid contains oxygen and is suitable for absorbing oxygen, and to a method for gas-flushing a surface of a medical implant.

IPC 8 full level
A61F 2/28 (2006.01); **A61B 17/70** (2006.01); **A61M 27/00** (2006.01)

CPC (source: CN EP US)
A61B 17/7098 (2013.01 - EP); **A61F 2/0077** (2013.01 - CN); **A61F 2/06** (2013.01 - CN); **A61F 2/28** (2013.01 - CN EP US); **A61F 2/30767** (2013.01 - US); **A61F 2/4675** (2013.01 - US); **A61F 2002/0086** (2013.01 - CN); **A61F 2002/2825** (2013.01 - EP); **A61F 2002/2835** (2013.01 - EP); **A61F 2002/30062** (2013.01 - EP US); **A61F 2002/30677** (2013.01 - US); **A61F 2250/00** (2013.01 - EP); **A61F 2310/00293** (2013.01 - EP); **A61F 2310/00359** (2013.01 - EP US); **A61F 2310/00371** (2013.01 - EP); **A61F 2310/00383** (2013.01 - EP); **A61M 27/00** (2013.01 - EP)

Citation (examination)
WO 2007106591 A2 20070920 - KCI LICENSING INC [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3750510 A1 20201216; **EP 3750510 B1 20240110**; AU 2020203504 A1 20210107; AU 2020203504 B2 20211028; CA 3081241 A1 20201212; CA 3081241 C 20230307; CN 112076008 A 20201215; CN 112076008 B 20240426; DE 102019115933 A1 20201217; JP 2020199261 A 20201217; JP 7399795 B2 20231218; US 11510791 B2 20221129; US 2020390567 A1 20201217

DOCDB simple family (application)
EP 20176847 A 20200527; AU 2020203504 A 20200528; CA 3081241 A 20200525; CN 202010535683 A 20200612; DE 102019115933 A 20190612; JP 2020099464 A 20200608; US 202016880366 A 20200521